

PC-0044 CIP

<110> Bandman, Olga
Lal, Preeti
Tang, Y. Tom
Baughn, Mariah R.

<120> HUMAN GPCR PROTEINS

<130> PC-0044 CIP

<140> To Be Assigned

<141> Herewith

<160> 74

<170> PERL Program

<210> 1

<211> 441

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1258981CD1

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Met	Ala	Ile	His	Lys	Ala	Leu	Val	Met	Cys	Leu	Gly	Leu	Pro	Leu	
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Phe	Leu	Phe	Pro	Gly	Ala	Trp	Ala	Gln	Gly	His	Val	Pro	Pro	Gly	
				20					25					30	
Cys	Ser	Gln	Gly	Leu	Asn	Pro	Leu	Tyr	Tyr	Asn	Leu	Cys	Asp	Arg	
				35					40					45	
Ser	Gly	Ala	Trp	Gly	Ile	Val	Leu	Glu	Ala	Val	Ala	Gly	Ala	Gly	
				50					55					60	
Ile	Val	Thr	Thr	Phe	Val	Leu	Thr	Ile	Ile	Leu	Val	Ala	Ser	Leu	
				65					70					75	
Pro	Phe	Val	Gln	Asp	Thr	Lys	Lys	Arg	Ser	Leu	Leu	Gly	Thr	Gln	
				80					85					90	
Val	Phe	Phe	Leu	Leu	Gly	Thr	Leu	Gly	Leu	Phe	Cys	Leu	Val	Phe	
				95					100					105	
Ala	Cys	Val	Val	Lys	Pro	Asp	Phe	Ser	Thr	Cys	Ala	Ser	Arg	Arg	
				110					115					120	
Phe	Leu	Phe	Gly	Val	Leu	Phe	Ala	Ile	Cys	Phe	Ser	Cys	Leu	Ala	
				125					130					135	
Ala	His	Val	Phe	Ala	Leu	Asn	Phe	Leu	Ala	Arg	Lys	Asn	His	Gly	
				140					145					150	
Pro	Arg	Gly	Trp	Val	Ile	Phe	Thr	Val	Ala	Leu	Leu	Leu	Thr	Leu	
				155					160					165	
Val	Glu	Val	Ile	Ile	Asn	Thr	Glu	Trp	Leu	Ile	Ile	Thr	Leu	Val	
				170					175					180	
Arg	Gly	Ser	Gly	Glu	Gly	Gly	Pro	Gln	Gly	Asn	Ser	Ser	Ala	Gly	
				185					190					195	
Trp	Ala	Val	Ala	Ser	Pro	Cys	Ala	Ile	Ala	Asn	Met	Asp	Phe	Val	
				200					205					210	
Met	Ala	Leu	Ile	Tyr	Val	Met	Leu	Leu	Leu	Leu	Gly	Ala	Phe	Leu	
				215					220					225	
Gly	Ala	Trp	Pro	Ala	Leu	Cys	Gly	Arg	Tyr	Lys	Arg	Trp	Arg	Lys	
				230					235					240	
His	Gly	Val	Phe	Val	Leu	Leu	Thr	Thr	Ala	Thr	Ser	Val	Ala	Ile	
				245					250					255	
Trp	Val	Val	Trp	Ile	Val	Met	Tyr	Thr	Tyr	Gly	Asn	Lys	Gln	His	
				260					265					270	
Asn	Ser	Pro	Thr	Trp	Asp	Asp	Pro	Thr	Leu	Ala	Ile	Ala	Leu	Ala	
				275					280					285	
Ala	Asn	Ala	Trp	Ala	Phe	Val	Leu	Phe	Tyr	Val	Ile	Pro	Glu	Val	
				290					295					300	

09955555-062301

PC-0044 CIP

Ser Gln Val Thr Lys Ser Ser Pro Glu Gln Ser Tyr Gln Gly Asp
305 310 315
Met Tyr Pro Thr Arg Gly Val Gly Tyr Glu Thr Ile Leu Lys Glu
320 325 330
Gln Lys Gly Gln Ser Met Phe Val Glu Asn Lys Ala Phe Ser Met
335 340 345
Asp Glu Pro Val Ala Ala Lys Arg Pro Val Ser Pro Tyr Ser Gly
350 355 360
Tyr Asn Gly Gln Leu Leu Thr Ser Val Tyr Gln Pro Thr Glu Met
365 370 375
Ala Leu Met His Lys Val Pro Ser Glu Gly Ala Tyr Asp Ile Ile
380 385 390
Leu Pro Arg Ala Thr Ala Asn Ser Gln Val Met Gly Ser Ala Asn
395 400 405
Ser Thr Leu Arg Ala Glu Asp Met Tyr Ser Ala Gln Ser His Gln
410 415 420
Ala Ala Thr Pro Pro Lys Asp Gly Lys Asn Ser Gln Val Phe Arg
425 430 435
Asn Pro Tyr Val Trp Asp
440

<210> 2
<211> 353
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1459432CD1

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Met Asp Leu Glu Ala Ser Leu Leu Pro Thr Gly Pro Asn Ala Ser
1 5 10 15
Asn Thr Ser Asp Gly Pro Asp Asn Leu Thr Ser Ala Gly Ser Pro
20 25 30
Pro Arg Thr Gly Ser Ile Ser Tyr Ile Asn Ile Ile Met Pro Ser
35 40 45
Val Phe Gly Thr Ile Cys Leu Leu Gly Ile Ile Gly Asn Ser Thr
50 55 60
Val Ile Phe Ala Val Val Lys Lys Ser Lys Leu His Trp Cys Asn
65 70 75
Asn Val Pro Asp Ile Phe Ile Ile Asn Leu Ser Val Val Asp Leu
80 85 90
Leu Phe Leu Leu Gly Met Pro Phe Met Ile His Gln Leu Met Gly
95 100 105
Asn Gly Val Trp His Phe Gly Glu Thr Met Cys Thr Leu Ile Thr
110 115 120
Ala Met Asp Ala Asn Ser Gln Phe Thr Ser Thr Tyr Ile Leu Thr
125 130 135
Ala Met Ala Ile Asp Arg Tyr Leu Ala Thr Val His Pro Ile Ser
140 145 150
Ser Thr Lys Phe Arg Lys Pro Ser Val Ala Thr Leu Val Ile Cys
155 160 165
Leu Leu Trp Ala Leu Ser Phe Ile Ser Ile Thr Pro Val Trp Leu
170 175 180
Tyr Ala Arg Leu Ile Pro Phe Pro Gly Gly Ala Val Gly Cys Gly
185 190 195
Ile Arg Leu Pro Asn Pro Asp Thr Asp Leu Tyr Trp Phe Thr Leu
200 205 210
Tyr Gln Phe Phe Leu Ala Phe Ala Leu Pro Phe Val Val Ile Thr
215 220 225
Ala Ala Tyr Val Arg Ile Leu Gln Arg Met Thr Ser Ser Val Ala
230 235 240
Pro Thr Ser Gln Arg Ser Ile Arg Leu Arg Thr Lys Arg Val Thr
245 250 255
Arg Thr Ala Ile Ala Ile Cys Leu Val Phe Phe Val Cys Trp Ala

Pro	Tyr	Tyr	Val	260	Leu	Gln	Leu	Thr	Gln	265	Leu	Ser	Ile	Ser	Arg	270	Pro
Thr	Pro	Thr	Phe	275	Val	Tyr	Leu	Tyr	Asn	280	Ala	Ala	Ile	Ser	Leu	285	Gly
Tyr	Ala	Asn	Ser	290	Cys	Leu	Asn	Pro	Phe	295	Val	Tyr	Ile	Val	Leu	300	Cys
Glu	Thr	Phe	Arg	305	Lys	Arg	Leu	Val	Leu	310	Ser	Val	Lys	Pro	Ala	315	Ala
Gln	Gly	Gln	Leu	320	Arg	Ala	Val	Ser	Asn	325	Ala	Gln	Ala	Ala	Asp	330	Glu
Glu	Arg	Thr	Glu	335	Ser	Lys	Gly	Thr		340						345	
				350													

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<211> 333

<212> PRT

<213> Homo sapiens

<220>

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<223> Incyte ID No: 2214673CD1

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Met	Trp	Ser	Cys	Ser	Trp	Phe	Asn	Gly	Thr	Gly	Leu	Val	Glu	Glu			
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Leu	Pro	Ala	Cys	Gln	Asp	Leu	Gln	Leu	Gly	Leu	Ser	Leu	Leu	Ser			
				20					25					30			
Leu	Leu	Gly	Leu	Val	Val	Gly	Val	Pro	Val	Gly	Leu	Cys	Tyr	Asn			
				35					40					45			
Ala	Leu	Leu	Val	Leu	Ala	Asn	Leu	His	Ser	Lys	Ala	Ser	Met	Thr			
				50					55					60			
Met	Pro	Asp	Val	Tyr	Phe	Val	Asn	Met	Ala	Val	Ala	Gly	Leu	Val			
				65					70					75			
Leu	Ser	Ala	Leu	Ala	Pro	Val	His	Leu	Leu	Gly	Pro	Pro	Ser	Ser			
				80					85					90			
Arg	Trp	Ala	Leu	Trp	Ser	Val	Gly	Gly	Glu	Val	His	Val	Ala	Leu			
				95					100					105			
Gln	Ile	Pro	Phe	Asn	Val	Ser	Ser	Leu	Val	Ala	Met	Tyr	Ser	Thr			
				110					115					120			
Ala	Leu	Leu	Ser	Leu	Asp	His	Tyr	Ile	Glu	Arg	Ala	Leu	Pro	Arg			
				125					130					135			
Thr	Tyr	Met	Ala	Ser	Val	Tyr	Asn	Thr	Arg	His	Val	Cys	Gly	Phe			
				140					145					150			
Val	Trp	Gly	Gly	Ala	Leu	Leu	Thr	Ser	Phe	Ser	Ser	Leu	Leu	Phe			
				155					160					165			
Tyr	Ile	Cys	Ser	His	Val	Ser	Thr	Arg	Ala	Leu	Glu	Cys	Ala	Lys			
				170					175					180			
Met	Gln	Asn	Ala	Glu	Ala	Ala	Asp	Ala	Thr	Leu	Val	Phe	Ile	Gly			
				185					190					195			
Tyr	Val	Val	Pro	Ala	Leu	Ala	Thr	Leu	Tyr	Ala	Leu	Val	Leu	Leu			
				200					205					210			
Ser	Arg	Val	Arg	Arg	Glu	Asp	Thr	Pro	Leu	Asp	Arg	Asp	Thr	Gly			
				215					220					225			
Arg	Leu	Glu	Pro	Ser	Ala	His	Arg	Leu	Leu	Val	Ala	Thr	Val	Cys			
				230					235					240			
Thr	Gln	Phe	Gly	Leu	Trp	Thr	Pro	His	Tyr	Leu	Ile	Leu	Leu	Gly			
				245					250					255			
His	Thr	Gly	Ile	Ile	Ser	Arg	Gly	Lys	Pro	Val	Asp	Ala	His	Tyr			
				260					265					270			
Leu	Gly	Leu	Leu	His	Phe	Val	Lys	Asp	Phe	Ser	Lys	Leu	Leu	Ala			
				275					280					285			
Phe	Ser	Ser	Ser	Phe	Val	Thr	Pro	Leu	Leu	Tyr	Arg	Tyr	Met	Asn			
				290					295					300			
Gln	Ser	Phe	Pro	Ser	Lys	Leu	Gln	Arg	Leu	Met	Lys	Lys	Leu	Pro			
				305					310					315			

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Cys Gly Asp Arg His Cys Ser Pro Asp His Met Gly Val Gln Gln
320 325 330
Val Leu Ala

<210> 4
<211> 396
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2488822CD1

<400> 4

Met	Phe	Arg	Pro	Leu	Val	Asn	Leu	Ser	His	Ile	Tyr	Phe	Lys	Lys
1				5					10					15
Phe	Gln	Tyr	Cys	Gly	Tyr	Ala	Pro	His	Val	Arg	Ser	Cys	Lys	Pro
				20					25					30
Asn	Thr	Asp	Gly	Ile	Ser	Ser	Leu	Glu	Asn	Leu	Leu	Ala	Ser	Ile
				35					40					45
Ile	Gln	Arg	Val	Phe	Val	Trp	Val	Val	Ser	Ala	Val	Thr	Cys	Phe
				50					55					60
Gly	Asn	Ile	Phe	Val	Ile	Cys	Met	Arg	Pro	Tyr	Ile	Arg	Ser	Glu
				65					70					75
Asn	Lys	Leu	Tyr	Ala	Met	Ser	Ile	Ile	Ser	Leu	Cys	Cys	Ala	Asp
				80					85					90
Cys	Leu	Met	Gly	Ile	Tyr	Leu	Phe	Val	Ile	Gly	Gly	Phe	Asp	Leu
				95					100					105
Lys	Phe	Arg	Gly	Glu	Tyr	Asn	Lys	His	Ala	Gln	Leu	Trp	Met	Glu
				110					115					120
Ser	Thr	His	Cys	Gln	Leu	Val	Gly	Ser	Leu	Ala	Ile	Leu	Ser	Thr
				125					130					135
Glu	Val	Ser	Val	Leu	Leu	Thr	Phe	Leu	Thr	Leu	Glu	Lys	Tyr	
				140					145					150
Ile	Cys	Ile	Val	Tyr	Pro	Phe	Arg	Cys	Val	Arg	Pro	Gly	Lys	Cys
				155					160					165
Arg	Thr	Ile	Thr	Val	Leu	Ile	Leu	Ile	Trp	Ile	Thr	Gly	Phe	Ile
				170					175					180
Val	Ala	Phe	Ile	Pro	Leu	Ser	Asn	Lys	Glu	Phe	Phe	Lys	Asn	Tyr
				185					190					195
Tyr	Ala	Pro	Asn	Gly	Val	Cys	Phe	Pro	Leu	His	Ser	Glu	Asp	Thr
				200					205					210
Glu	Ser	Ile	Gly	Ala	Gln	Ile	Tyr	Ser	Val	Ala	Ile	Phe	Leu	Gly
				215					220					225
Ile	Asn	Leu	Ala	Ala	Phe	Ile	Ile	Ile	Val	Phe	Ser	Tyr	Gly	Ser
				230					235					240
Met	Phe	Tyr	Ser	Val	His	Gln	Ser	Ala	Ile	Thr	Ala	Thr	Glu	Ile
				245					250					255
Arg	Asn	Gln	Val	Lys	Lys	Glu	Met	Ile	Leu	Ala	Lys	Arg	Phe	Phe
				260					265					270
Phe	Ile	Val	Phe	Thr	Asp	Ala	Leu	Cys	Trp	Ile	Pro	Ile	Phe	Val
				275					280					285
Val	Lys	Phe	Leu	Ser	Leu	Leu	Gln	Val	Glu	Ile	Pro	Gly	Thr	Ile
				290					295					300
Thr	Ser	Trp	Val	Val	Ile	Phe	Ile	Leu	Pro	Ile	Asn	Ser	Ala	Leu
				305					310					315
Asn	Pro	Ile	Leu	Tyr	Thr	Leu	Thr	Thr	Arg	Pro	Phe	Lys	Glu	Met
				320					325					330
Ile	His	Arg	Phe	Trp	Tyr	Asn	Tyr	Arg	Gln	Arg	Lys	Ser	Met	Asp
				335					340					345
Ser	Lys	Gly	Gln	Lys	Thr	Tyr	Ala	Pro	Ser	Phe	Ile	Trp	Val	Glu
				350					355					360
Met	Trp	Pro	Leu	Gln	Glu	Met	Pro	Pro	Glu	Leu	Met	Lys	Pro	Asp
				365					370					375
Leu	Phe	Thr	Tyr	Pro	Cys	Glu	Met	Ser	Leu	Ile	Ser	Gln	Ser	Thr

09855686-062804

Arg Leu Asn Ser Tyr Ser 380 385 390
395

<210> 5
<211> 403
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2705201CD1

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Met Phe Val Ala Ser Glu Arg Lys Met Arg Ala His Gln Val Leu
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Thr Phe Leu Leu Leu Phe Val Ile Thr Ser Val Ala Ser Glu Asn
20 25 30
Ala Ser Thr Ser Arg Gly Cys Gly Leu Asp Leu Leu Pro Gln Tyr
35 40 45
Val Ser Leu Cys Asp Leu Asp Ala Ile Trp Gly Ile Val Val Glu
50 55 60
Ala Val Ala Gly Ala Gly Ala Leu Ile Thr Leu Leu Leu Met Leu
65 70 75
Ile Leu Leu Val Arg Leu Pro Phe Ile Lys Glu Lys Glu Lys Lys
80 85 90
Ser Pro Val Gly Leu His Phe Leu Phe Leu Leu Gly Thr Leu Gly
95 100 105
Leu Phe Gly Leu Thr Phe Ala Phe Ile Ile Gln Glu Asp Glu Thr
110 115 120
Ile Cys Ser Val Arg Arg Phe Leu Trp Gly Val Leu Phe Ala Leu
125 130 135
Cys Phe Ser Cys Leu Leu Ser Gln Ala Trp Arg Val Arg Arg Leu
140 145 150
Val Arg His Gly Thr Gly Pro Ala Gly Trp Gln Leu Val Gly Leu
155 160 165
Ala Leu Cys Leu Met Leu Val Gln Val Ile Ile Ala Val Glu Trp
170 175 180
Leu Val Leu Thr Val Leu Arg Asp Thr Arg Pro Ala Cys Ala Tyr
185 190 195
Glu Pro Met Asp Phe Val Met Ala Leu Ile Tyr Asp Met Val Leu
200 205 210
Leu Val Val Thr Leu Gly Leu Ala Leu Phe Thr Leu Cys Gly Lys
215 220 225
Phe Lys Arg Trp Lys Leu Asn Gly Ala Phe Leu Leu Ile Thr Ala
230 235 240
Phe Leu Ser Val Leu Ile Trp Val Ala Trp Met Thr Met Tyr Leu
245 250 255
Phe Gly Asn Val Lys Leu Gln Gln Gly Asp Ala Trp Asn Asp Pro
260 265 270
Thr Leu Ala Ile Thr Leu Ala Ala Ser Gly Trp Val Phe Val Ile
275 280 285
Phe His Ala Ile Pro Glu Ile His Cys Thr Leu Leu Pro Ala Leu
290 295 300
Gln Glu Asn Thr Pro Asn Tyr Phe Asp Thr Ser Gln Pro Arg Met
305 310 315
Arg Glu Thr Ala Phe Glu Glu Asp Val Gln Leu Pro Arg Ala Tyr
320 325 330
Met Glu Asn Lys Ala Phe Ser Met Asp Glu His Asn Ala Ala Leu
335 340 345
Arg Thr Ala Gly Phe Pro Asn Gly Ser Leu Gly Lys Arg Pro Ser
350 355 360
Gly Ser Leu Gly Lys Arg Pro Ser Ala Pro Phe Arg Ser Asn Val
365 370 375
Tyr Gln Pro Thr Glu Met Ala Val Val Leu Asn Gly Gly Thr Ile
380 385 390

05955585 "062201

PC-0044 CIP

Pro Thr Ala Pro Pro Ser His Thr Gly Arg His Leu Trp
395 400

<210> 6
<211> 807
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
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Met Gly Thr Tyr His Cys Ile Phe Arg Tyr Lys Asn Ser Tyr Ser
1 5 10 15
Ile Ala Thr Lys Asp Val Ile Val His Pro Leu Pro Leu Lys Leu
20 25 30
Asn Ile Met Val Asp Pro Leu Glu Ala Thr Val Ser Cys Ser Gly
35 40 45
Ser His His Ile Lys Cys Cys Ile Glu Glu Asp Gly Asp Tyr Lys
50 55 60
Val Thr Phe His Met Gly Ser Ser Ser Leu Pro Ala Ala Lys Glu
65 70 75
Val Asn Lys Lys Gln Val Cys Tyr Lys His Asn Phe Asn Ala Ser
80 85 90
Ser Val Ser Trp Cys Ser Lys Thr Val Asp Val Cys Cys His Phe
95 100 105
Thr Asn Ala Ala Asn Asn Ser Val Trp Ser Pro Ser Met Lys Leu
110 115 120
Asn Leu Val Pro Gly Glu Asn Ile Thr Cys Gln Asp Pro Val Ile
125 130 135
Gly Val Gly Glu Pro Gly Lys Val Ile Gln Lys Leu Cys Arg Phe
140 145 150
Ser Asn Val Pro Ser Ser Pro Glu Ser Pro Ile Gly Gly Thr Ile
155 160 165
Thr Tyr Lys Cys Val Gly Ser Gln Trp Glu Glu Lys Arg Asn Asp
170 175 180
Cys Ile Ser Ala Pro Ile Asn Ser Leu Leu Gln Met Ala Lys Ala
185 190 195
Leu Ile Lys Ser Pro Ser Gln Asp Glu Met Leu Pro Thr Tyr Leu
200 205 210
Lys Asp Leu Ser Ile Ser Ile Gly Lys Ala Glu His Glu Ile Ser
215 220 225
Ser Ser Pro Gly Ser Leu Gly Ala Ile Ile Asn Ile Leu Asp Leu
230 235 240
Leu Ser Thr Val Pro Thr Gln Val Asn Ser Glu Met Met Thr His
245 250 255
Val Leu Ser Thr Val Asn Ile Ile Leu Gly Lys Pro Val Leu Asn
260 265 270
Thr Trp Lys Val Leu Gln Gln Gln Trp Thr Asn Gln Ser Ser Gln
275 280 285
Leu Leu His Ser Val Glu Arg Phe Ser Gln Ala Leu Gln Ser Gly
290 295 300
Asp Ser Pro Pro Leu Ser Phe Ser Gln Thr Asn Val Gln Met Ser
305 310 315
Ser Met Val Ile Lys Ser Ser His Pro Glu Thr Tyr Gln Gln Arg
320 325 330
Phe Val Phe Pro Tyr Phe Asp Leu Trp Gly Asn Val Val Ile Asp
335 340 345
Lys Ser Tyr Leu Glu Asn Leu Gln Ser Asp Ser Ser Ile Val Thr
350 355 360
Met Ala Phe Pro Thr Leu Gln Ala Ile Leu Ala Gln Asp Ile Gln
365 370 375
Glu Asn Asn Phe Ala Glu Ser Leu Val Met Thr Thr Thr Val Ser
380 385 390
His Asn Thr Thr Met Pro Phe Arg Ile Ser Met Thr Phe Lys Asn

05895686.06301

Asn	Ser	Pro	Ser	Gly	Gly	Glu	Thr	Lys	Cys	Val	Phe	Trp	Asn	Phe	395	400	405
				410					415								420
Arg	Leu	Ala	Asn	Asn	Thr	Gly	Gly	Trp	Asp	Ser	Ser	Gly	Cys	Tyr			
				425					430								435
Val	Glu	Glu	Gly	Asp	Gly	Asp	Asn	Val	Thr	Cys	Ile	Cys	Asp	His			
				440					445								450
Leu	Thr	Ser	Phe	Ser	Ile	Leu	Met	Ser	Pro	Asp	Ser	Pro	Asp	Pro			
				455					460								465
Ser	Ser	Leu	Leu	Gly	Ile	Leu	Leu	Asp	Ile	Ile	Ser	Tyr	Val	Gly			
				470					475								480
Val	Gly	Phe	Ser	Ile	Leu	Ser	Leu	Ala	Ala	Cys	Leu	Val	Val	Glu			
				485					490								495
Ala	Val	Val	Trp	Lys	Ser	Val	Thr	Lys	Asn	Arg	Thr	Ser	Tyr	Met			
				500					505								510
Arg	His	Thr	Cys	Ile	Val	Asn	Ile	Ala	Ala	Ser	Leu	Leu	Val	Ala			
				515					520								525
Asn	Thr	Trp	Phe	Ile	Val	Val	Ala	Ala	Ile	Gln	Asp	Asn	Arg	Tyr			
				530					535								540
Ile	Leu	Cys	Lys	Thr	Ala	Cys	Val	Ala	Ala	Thr	Phe	Phe	Ile	His			
				545					550								555
Phe	Phe	Tyr	Leu	Ser	Val	Phe	Phe	Trp	Met	Leu	Thr	Leu	Gly	Leu			
				560					565								570
Met	Leu	Phe	Tyr	Arg	Leu	Val	Phe	Ile	Leu	His	Glu	Thr	Ser	Arg			
				575					580								585
Ser	Thr	Gln	Lys	Ala	Ile	Ala	Phe	Cys	Leu	Gly	Tyr	Gly	Cys	Pro			
				590					595								600
Leu	Ala	Ile	Ser	Val	Ile	Thr	Leu	Gly	Ala	Thr	Gln	Pro	Arg	Glu			
				605					610								615
Val	Tyr	Thr	Arg	Lys	Asn	Val	Cys	Trp	Leu	Asn	Trp	Glu	Asp	Thr			
				620					625								630
Lys	Ala	Leu	Leu	Ala	Phe	Ala	Ile	Pro	Ala	Leu	Ile	Ile	Val	Val			
				635					640								645
Val	Asn	Ile	Thr	Ile	Thr	Ile	Val	Val	Ile	Thr	Lys	Ile	Leu	Arg			
				650					655								660
Pro	Ser	Ile	Gly	Asp	Lys	Pro	Cys	Lys	Gln	Glu	Lys	Ser	Ser	Leu			
				665					670								675
Phe	Gln	Ile	Ser	Lys	Ser	Ile	Gly	Val	Leu	Thr	Pro	Leu	Leu	Gly			
				680					685								690
Leu	Thr	Trp	Gly	Phe	Gly	Leu	Thr	Thr	Val	Phe	Pro	Gly	Thr	Asn			
				695					700								705
Leu	Val	Phe	His	Ile	Ile	Phe	Ala	Ile	Leu	Asn	Val	Phe	Gln	Gly			
				710					715								720
Leu	Phe	Ile	Leu	Leu	Phe	Gly	Cys	Leu	Trp	Asp	Leu	Lys	Val	Gln			
				725					730								735
Glu	Ala	Leu	Leu	Asn	Lys	Phe	Ser	Leu	Ser	Arg	Trp	Ser	Ser	Gln			
				740					745								750
His	Ser	Lys	Ser	Thr	Ser	Leu	Gly	Ser	Ser	Thr	Pro	Val	Phe	Ser			
				755					760								765
Met	Ser	Ser	Pro	Ile	Ser	Arg	Arg	Phe	Asn	Asn	Leu	Phe	Gly	Lys			
				770					775								780
Thr	Gly	Thr	Tyr	Asn	Val	Ser	Thr	Pro	Glu	Ala	Thr	Ser	Ser	Ser			
				785					790								795
Leu	Glu	Asn	Ser	Ser	Ser	Ala	Ser	Ser	Leu	Leu	Asn						
				800					805								

<210> 7

<211> 1819

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1258981CB1

<400> 7

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 gagcctggcc tgggagccag gatggccatc cacaaagcct tggatgatgtg cctgggactg 120
 cctctcttcc tgttcccagg ggccctgggccc cagggccatg tcccacccgg ctgcagccaa 180
 ggccctcaacc cctgtacta caacctgtgt gaccgctctg gggcgtgggg catcgctctg 240
 gaggcctgtg ctggggcggg cattgtcacc acgtttgtgc tcaccatcat cctgggtggcc 300
 agcctcccct ttgtgcagga caccaagaaa cggagcctgc tggggaccca ggtattcttc 360
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<220>

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<211> 1878

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 2214673CB1

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<211> 1804

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 2488822CB1

<400> 10

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<212> DNA

<213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

<220>
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<223> Incyte ID No: 1258981H1

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<221> unsure

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<223> a, t, c, g, or other

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<211> 516

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 1442823R1

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<223> Incyte ID No: 1962119T6

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accgccgagg	tgatcctggc	aggaggtctg	ggttggtcc	tcgactccac	aaacactgag	180
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catctggggc	acatgttgct	gggctgc				268

<210> 16

<211> 246

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<223> Incyte ID No: 2059242R6

<400> 16

cagtgttttg	gtgggtgtca	tgggtgtccc	caccactcc	tcagtgtttg	tggagtcgag	60
gagccaaccc	cagcctcctg	ccaggatcac	ctcggcggtc	acactccagc	caaatagtgt	120
tctcggggtg	gtggctgggc	agcgcctatg	tttctctgga	gattcctgca	acctcaagag	180

acttcccagg cgctcaggcc tggatcttgc tcctctgtga ggaacaaggg tgccataataa 240
atacat 246

<210> 17
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SATA01180F1

<220>
<221> unsure
<222> 50, 52, 56, 66, 233, 272, 296
<223> a, t, c, g, or other

<400> 17
gactctagag gatccccctt caccacacag gcaaacacga ggcagaagan gnccanggtc 60
cccagnaaga agaatacctg ggtccccagc aggctccgtt tcttggtgtc ctgcacaaag 120
gggagggtgg ccaccaggat gatggtgagc acaaacgtgg tgacaatgcc cgccccagcc 180
acggcctcca ggacgatgcc ccacgcccc aagcggtcac acagggttga gtncagggggg 240
ttgaggcctt ggctgcagcc ggggtgggaca tnggggtacc gagctcgaat tcgtantcat 300

<210> 18
<211> 467
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SARB01556F1

<220>
<221> unsure
<222> 41, 51, 88-89, 105, 127-128, 173, 176, 200-201, 208, 217-218, 221, 223,
229-230, 235-236, 239, 251, 260, 270, 274, 277, 280, 295, 307-308, 313-314,
325, 339, 359, 362-363, 368, 376, 380, 382, 391, 405-406, 409, 414-416,
435-436, 441, 448-449, 455, 457, 459
<223> a, t, c, g, or other

<400> 18
cctgcaggtc gactctagag gataggcctc acgtctttgc nctcaacttc ntggcccggga 60
agaaccacgg gccccggggc tgggtgannt tcaactgtggc tctgntgctg accctggtag 120
aggctcannat caatacagag tggctgatca tcacctggtt tcggggcagt ggnganggcg 180
gccctcaggg caacagcagn ncaggctnng ccgtgggnntc ncnctgtggn atcgnaanc 240
atggatttgt natagcactn atctcacgtn atgntgntgn tgctgggtgc cttcntgggg 300
gcctggnnca gcnntgtgt tggcngctaa agccctggng taagaatggg gtctttgtng 360
tnntcaanaa aaccanctcn gntgccatat nggtagtgag aaacnncang tatnntaca 420
ggcaacaagc accnnaaca ntttccannc tgggnangna cccaaag 467

<210> 19
<211> 631
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SARA01967F1

<220>
<221> unsure
<222> 229, 240, 341, 411, 445, 465-466, 469, 477, 491-492, 499-500, 505, 510,
517-518, 522, 524-525, 539-540, 545, 547-548, 551, 563-564, 567, 570, 572-573,
578-579, 585, 592, 605, 607, 627-628
<223> a, t, c, g, or other

```

<400> 19
atccatggaa aaggccttgt tctccacgaa catgctctga cccttctgct ctttcaggat 60
gggtctcatag cccacgcccc ggggtgggta catgtcccc tggtagcttt gctctgggct 120
ggacttggtc acctgggaga cctcggggat gacgtagaag aggacgaagg cccaggcatt 180
ggcggcgagg gcgatggcca gcgtggggtc atcccagggt ggactgttnt gctgcttgn 240
gccgtaagta tacatgacga tccacaccac ccatatggca acggagggtg ctgtgggtgag 300
gagcacaag accccatgct tacgccagcg cttgtagcgg ncacacaggg cgggccaggc 360
ccccaggaag gcacccagca gcagcagcat gacgtagatg agtgccaatg ncaaagtcca 420
tggtggcgat ggcacaagg ggganggcca agggccccag ggggnnacng aggcttngaa 480
atttggtaaa nncaaggtnn aaaancaagn tttcccnng gngnnaaaaa ttttttaann 540
cccgncnca naaatttccc canncangan anntttanng atccngggaa ancccataaa 600
aaaantntta aaaaccctt gggggggncc c 631

```

```

<210> 20
<211> 223
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 1459432H1

```

```

<400> 20
ggcacttttg ggagaccatg tgcaccctca tcacggccat ggatgccaat agtcagttca 60
ccagcaccta catcctgacc gccatggcca ttgaccgcta cctggccact gtccacccca 120
tctcttccac gaagttccgg aagccctctg tggccaccct ggtgatctgc ctctgtggg 180
ccctctcctt catcagcatc acccctgtgt ggctgtatgc cag 223

```

```

<210> 21
<211> 475
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 1459432R1

```

```

<400> 21
gggtggagat tttcctttat ttgattttat tttggagagg aagggtctaga gcaaaaagat 60
gatgccaaca caccgggcac tagaatgacc cctgcacatg cagaacacac ggacactcaa 120
gctggattag tgactgagca aatgtgcccc gtggagagaa tgtcaccaga gctgcaaaaag 180
cccccgacc ccagctttta ttagttttta gacccccaac cacacccacc ccaggctctcc 240
ttgttttcag taagcagacc tcctagcaaa ctgggctttt actcctgtgg gctcagtgcc 300
acatccccctc aaataaacat gcacccctca gagcaaaaagg gaaattgaca ggatgctgga 360
acgccgagag atgggatgct ttatttttca ttatccacca gcttgggaga aaggccacct 420
tcacatgcac cagttagagg cgggaaagag cgatcggggc ctttcccgtc tctca 475

```

```

<210> 22
<211> 336
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 1459432X12

```

```

<400> 22
gtccgggact ggaacctcgc tgctgccac tgggtcccaac gccagcaaca cctctgatgg 60
ccccgataac ctcaattcgg caggatcacc tcctcgcacg gggagcatct cctacatcga 120
catcatcatg ccttcgggtg tcggcaccat ctgcctcctg ggcacatcg ggaactccac 180
ggatcatctc gcggtcgtga agaagtccaa gctgcactgg tgcaacaacg tccccgacat 240
cttcatcatc aacctctcgg tagtagatct cctctttctc ctgggcatgc ccttcgtgat 300
ccacaagctc atgggcaatg ggggtgtggca ctttgg 336

```

```

<210> 23
<211> 478

```

PC-0044 CIP

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3001554F6

<400> 23
gagaatgtca ccagagctgc aaaatctccc cgaccccagc ttttattagt tttaagaccc 60
ccaaccacac ccaccccagg tctccttggt ttcagtaagc agacctccta gcaaactggg 120
cttttactcc tgtggggtca gtgccacatc ccctcaaata aacatgcatc ctctagagca 180
aaagggagat tgacaggatg ctggaacgcc gagagatggg atgctttatt ttccattatc 240
caccagcttg ggagaaaggc caccttccat cgcaccagtg agaggcggga aagagcgcac 300
gggccctttc ccgtctctca ggccttggtg aacatggccc tggctgctca ctccagccct 360
gcctgacttt aaacaaaccc agtcagtacc ctccacctc ttgccttggg aagaagacat 420
ttgagagctc acagatatag tgcaaccggg tatccaaacc aacatgttct cttgctca 478

<210> 24
<211> 279
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SAAC00257R1

<220>
<221> unsure
<222> 14
<223> a, t, c, g, or other

<400> 24
tccccaaagt gccncacccc attgcccatg agctgggtgga tcatgaaggg catgccccagg 60
agaaagagga gatctactac cgagagggtg atgatgaaga tgtcggggac gttgttgac 120
cagtgcagct tggacttctt cacgaccgag aagatgaccg tggagttccc gatgatgccc 180
aggaggcaga tgggtgccga caccgaaggc atgatgatgt tgatgttaga gatgctcccc 240
gtgcgaggag gtgatcctgc cgaagtgagg ttatcgggg 279

<210> 25
<211> 519
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SAAB00250R1

<400> 25
ggcacttttg ggagaccatg tgcaccctca tcacggccat ggatgccaat agtcagttca 60
ccagcaccta catcctgacc gccatggcca ttgaccgcta cctggccact gtccacccca 120
tctcttccac gaagttccgg aagccctctg tggccacccct ggtgatctgc ctctgtggg 180
ccctctcctt catcagcatc acccctgtgt ggctgtatgc cagactcatc cccctcccag 240
gaggtgcagt gggctgcggc atacgcctgc ccaacccaga cactgacctc tactgggttca 300
ccctgtacca gtttttcttg gcctttgccc tgcctttagt ggtcatcaca gccgcatacg 360
tgaggatcct gcagcgcgat acgtcctcag tggccccccg cccccagcgc agcatccggc 420
tgccgacaaa gaggggtgacc cgcacagcca tcgccatctg tctgggtcttc tttgtgtgct 480
gggcacccta ctatgtgcta cagctgaccc agttgtcca 519

<210> 26
<211> 535
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SAAB00523R1

PC-0044 CIP

<220>
<221> unsure
<222> 113, 130-132, 134, 482, 530
<223> a, t, c, g, or other

<400> 26
ggcgggaaag agcgatcggg ccctttcccg tctctcaggg cttgtgcaac atggccctgg 60
ctgctcactc cagccctgcc tgactttaaa caaacccagt cagtaccctt ccncctcttg 120
ccttgggaan nngncatttg agagctcaca gatatagtgc aaccggttat ccaaaccaac 180
atgttctctt gctcagcttc tgttctatcc aaaggtctca tcctgctccc ccaaggggat 240
ttctgatata tgaaaacccc aaacctgact ccaggcctcc ccagcaacgt gtgagcccca 300
tggaatgtat ttatttcatt gcaacaaccc ctcaacaacc ggccttcctg catttcccg 360
gcggtcttgg gtttttctca gcatctctcc cgggtggcgtg ttgtgggtgc ctgacttgga 420
ggtgtgcagg gtggcagggg aagtatcagg tgccttgctt tctggcctct ctcgtcagcc 480
gnctgagcgt tgctgacagc gcgagtggcc ctgggtgcag gcttaacgan agctg 535

<210> 27
<211> 255
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2214673H1

<400> 27
cctcaccaga gctctgggtg ccacctctgt cccgccatgc tgctcaccga cagtggccag 60
ggccacacag accaagaggc ttggggccaca aagtaaaggg tcgcgacact cgccggccgc 120
catgtggagc tgcagctggt tcaacggcac agggctgggt gaggagctgc ctgectgcca 180
ggacctgcag ctggggctgt cactgttggt gctgctgggc ctgggtgggt gcgtgccagt 240
gggcctgtgc tacaa 255

<210> 28
<211> 363
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3073644H1

<400> 28
cagcaagctc caacggctga tgaaaaagct gccctgcggg ggccggcact gctccccgga 60
ccacatgggg gtgcagcagg tgctggcgta ggccggccag ccctcctggg gagacgtgac 120
tctgggtggc gcagagcact tagttaccct ggacgctccc cacatccttc cagaaggaga 180
cgagctgctg gaagacaagc aggaggggtg tttttcttga agtttccttt ttcccacaaa 240
tgccactctt gggccaaggc tgtgggtccc gtggctggca tctggcttga gtctccccga 300
ggcctgtgcg tctcccaaac acgcagctca aggtccacat ccgcaaaagc ctctctgcct 360
tca 363

<210> 29
<211> 281
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3573501F6

<220>
<221> unsure
<222> 11, 29, 50, 72, 77, 93, 125-126, 131, 139, 144, 156, 176, 184, 214, 216,
246, 250, 252
<223> a, t, c, g, or other

<400> 29

PC-0044 CIP

```
cgcacagctg ngcaggctct caccagagnt ctgggtggcca cctctgtccn ggcatgctgc 60
tcaccgacag tngccanggc ccacagcacc aanaggcttg ggccacaaaag taaagggctcg 120
cggannctcg ncggcccgna tgtngagctg cagctngttc aacggcacag ggctgntgga 180
gganctgcct gctgccagg acctgcagtg gggntntcac tgttgtcgct gctgggcctg 240
gtggtnggcn tnccagtggg cctgtgctac aacgcctgc t 281
```

<210> 30
<211> 238
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4618526H1

```
<400> 30
gcagggagga cagccccctg gaccgggaca cggggccggct ggagccctcg gcacacaggc 60
tgctgggtggc caccgtgtgc acgcagtttg ggctctggac gccacactat ctgatcctgc 120
tggggcacac ggccatcatc tcgcgagggg agcccgtgga cgcacactac ctgggggctac 180
tgcactttgt gaaggatttc tccaaactcc tggccttctc cagcagcttt gtgacacc 238
```

<210> 31
<211> 259
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4857037H1

```
<400> 31
tttctccaaa ctcttgccct tctccagcag ctttgtgaca ccacttctct accgctacat 60
gaaccagagc ttccccagca agctccaacg gctgatgaaa aagctgccct gcggggaccg 120
gcactgctcc ccggaccaca tgggggtgca gcaggtgctg gcgtaggcgg ccagaccctc 180
ctggggagac gtgactctgg tggacgcaga gcacttagtt accctggacg ctccccacat 240
ccttccagaa ggagacgag 259
```

<210> 32
<211> 275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5025086H1

```
<400> 32
cttcgtgtgg ggtggcgcgc tgctgaccag cttctcctcg ctgctcttct acatctgcag 60
ccatgtgtcc acccgcgcgc tagagtgcgc caagatgcag aacgcagaag ctgccgacgc 120
cacgctggtg ttcacgggct acgtgggtgcc agcactggcc accctctacg cgctgggtgct 180
actctcccgc gtccgcaggg aggacacgcc cctggaccgg gacacggggc ggctggagcc 240
ctcggcacac aggctgctgg tggccaccgt gtgca 275
```

<210> 33
<211> 563
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1482004T1

<220>
<221> unsure
<222> 3, 97, 99
<223> a, t, c, g, or other

```

<400> 33
ttntgtttat ttatatctt tagttttgtg cacactttga ggaattgatt taggacaggt 60
tcatactgaa aaaaacctca gctgatgtta tctgtgngng ctggggaggg tgtcagggac 120
atttgggtggc tgaggagagc gcgtcactgc tattgaatag ctccatttaa caccagccat 180
gtctccgcgt ctcaggcact tctgtgaaat gttctcagaa ccctgtggtg actgcggcac 240
acccggcagg ccttgctagc acacgccgcc cactggcagg gcccgccac cctggctgtt 300
gccattcttt cgtagggttt tgttcatttt actatttgc atttttctag gaaacatctg 360
tttttgtaaa acaacaagg gggaatcaag tattttaacc acaaagtata aatactggct 420
ctaagctttc atcacttcat tgacaaactg aatgctgagg aggctgaagg cgaggaggct 480
tttgcggtatg tggaccttga gctgcgtgtt tgggagacgc acaggcctcg gggagactca 540
agccagatgc cagccacggg gct                                     563

```

```

<210> 34
<211> 466
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 153210R6

```

```

<220>
<221> unsure
<222> 14, 156, 277
<223> a, t, c, g, or other

```

```

<400> 34
gtcatttgca tgcnacctta tatcaggtct gagaacaagc tgtatgccat gtcaatcatt 60
tctctctgct gtgccgactg cttaatggga atatatttat tcgtgatcgg aggctttgac 120
ctaaagtttc gtggagaata caataagcat gcgcantgtg gatggagagt actcattgtc 180
agcttgtagg atctttggcc attctgtcca cagaagtatc agttttactg ttaacatttc 240
tgacattgga aaaatacatc tgcattgtct atccttntag atgtgtgaga cctggaaaat 300
gcagaacaat tacagttctg attctcattt ggattactgg ttttatagtg gtttcattcc 360
attgagcaat aaggaatttt tcaaaaacta ctatggcacc aatggagtat gcttcctctc 420
tcattcagaa gatacagaaa gtattggagc ccagatttat tcagtg                                     466

```

```

<210> 35
<211> 230
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2488822H1

```

```

<220>
<221> unsure
<222> 43
<223> a, t, c, g, or other

```

```

<400> 35
ctttgacctt aagtttcgtg gagaatacaa taagcatgcg cantgtggat ggagagtact 60
cattgtcagc ttgtaggatc ttggccatt ctgtccacag aagtatcagt tttactgtta 120
acatttctga cattggaaaa atacatctgc attgtctatc cttttagatg tgtgagacct 180
ggaaaatgca gaacaattac agttctgatt ctcatttggg ttactgggtt                                     230

```

```

<210> 36
<211> 483
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 3558664T6

```

```

<220>

```

PC-0044 CIP

<221> unsure
<222> 152-193, 334, 447
<223> a, t, c, g, or other

<400> 36
tcttgctgat gcacatgaca ggtaaagctc tacttttaaac taggaactgc agatggactt 60
tgtatagtct tttgtcatta aacaccatct acagattgaa aggttctgca ctgtctactt 120
ccaggactat attgcaatgc tatgcacata gnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 180
nnnnnnnnnn nnnngttactg aagtagatgt ctcttaattt cttatgcaaa atgtctacta 240
atatatatac attattgata taattacttc cctttgtaag agcattagtc attttttattt 300
ttcctcatgt ccttgtaaaa tatttatctt agcnattatt ataaattaat tttgtgggat 360
tcatttcata ccagtaaatc cctcatgaag cacccccaca gtattctctg cgaagaaatg 420
aatttcagag tcagtcatga atagganttg agtctcgttg attgaggaat cagtgcatt 480
tca 483

<210> 37
<211> 612
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2488822X308B1

<220>
<221> unsure
<222> 561
<223> a, t, c, g, or other

<400> 37
ggggtatgtg aaaaggtccg gctccattaa ctcaggtggc atctcctgca gtggccacat 60
ttccaccag atgaatgatg gagcatatgt tttctgacct ttgctgtcca tagattttct 120
ttgtctgtag ttataccaaa accgatgaat catttcttta aatggctctg tggtcagagt 180
atagagaatt ggggttcaaag cactgttaat gggcagaata aaaatcacta cccaagaggt 240
tatggtacct ggtatttcta cctgaagcag tgaaagaaat ttactacaa aaatgggtat 300
ccagcataat gcatcagtaa atactataaa gaaaaaacgt ttggcaagga tcatctcttt 360
tttaacttga ttccgtattt cagttgctgt tatggcactt tgatgaacac tataaaacat 420
gtttccatag gaaaaaactg tgatgataaa tgcgggcaaa ttaataccaa gaaaaattgc 480
cactgaataa atctggggct ccaatacttt ctgtatcttc tgaatgaaga gggaagcata 540
ctccattggg gccatagtag ntttgaaaaa ttccttattg ctcaatggaa tgaaagccac 600
ttttaaacca gt 612

<210> 38
<211> 562
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2488822X310D1

<220>
<221> unsure
<222> 311, 359, 446, 454, 509, 556
<223> a, t, c, g, or other

<400> 38
agagtaagtg ttaactaaaa gcattttatt aaattgtcct tcacagaaac tcaattttatt 60
aaaccatgta taatacatgt tcctttgatt gattattaat ttgatatttt tagcagccta 120
gaaggggattg aaatttcaaa tatccaacaa aggatgttta gacctcttat gaatctctct 180
cacatatatt ttaagaaatt ccagtactgt gggatgacac cacatgttcg cagctgtaaa 240
ccaaacactg atggaatttc atctctagag aatctcttgg caagcattat tcagagagta 300
tttgtctggg ntgtatctgc agttacctgc tttggaaaca tttttgtcat ttgcatgcna 360
ccttatatca ggtctgagaa caagctgtat gccatgtcaa tcatttctct ctgctgtgcc 420
gactgcttaa tggggatata tttatncgtg atcngaggct ttgacctaaa gtttcgtgga 480
gaatacaata agcatgcgcc tgtgggatng agagtactca ttgtcagctt gtaggatctt 540

tggccattcc tgccncagg ag

562

<210> 39

<211> 260

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2705201H1

<400> 39

```

accatctgct ctgtccgccg cttcctctgg ggcgtcctct ttgcgctctg cttctcctgc 60
ctgctgagcc aggcattggc cgtgcggagg ctggtgcggc atggcacggg ccccgcgggc 120
tggcagctgg tgggcctggc gctgtgcctg atgctggtgc aagtcacat cgctgtggag 180
tggctggtgc tcaccgtgct gcgtgacaca aggccagcct gcgcctacga gcccatggac 240
tttgtgatgg cctcatcta

```

<210> 40

<211> 264

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3141184H1

<400> 40

```

cttccacgcc atccctgaga tccactgcac cttcttgcca gccctgcagg agaacacgcc 60
caactacttc gacacgtcgc agcccaggat gcgggagacg gccttcgagg aggacgtgca 120
gctgcccgcg gcctatatgg agaacaaggc cttctccatg gatgaacaca atgcagctct 180
ccgaacagca ggatttccca acggcagctt gggaaaaaga cccagtggca gcttggggaa 240
aagaccacgc gtcctgttta gaag

```

<210> 41

<211> 505

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 384797R6

<220>

<221> unsure

<222> 433, 497

<223> a, t, c, g, or other

<400> 41

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ggggaaaaaga cccagcgctc cgtttagaag caacgtgtat cagccaactg agatggccgt 180
cgtgctcaac ggtgggacca tcccaactgc tccgccaagt cacacaggaa gacacctttg 240
gtgaaaagact ttaagttoca gagaatcaga atttctctta ccgatttgcc tccctggctg 300
tgtctttctt gagggagaaa tcggtaacag ttgccgaacc aggccgcctc acagccagga 360
aattttgaaa tcctagccaa ggggatttcg tgtaaatgtg aacactgacg aactgaaaag 420
ctaacaccga ctnccgcccc tccctgccca cacacacaga cacgtaatac agaccaacct 480
caatcccgca attcganggg gggcc

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<210> 42

<211> 606

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2705201X325F1

<220>

<221> unsure

<222> 41, 112, 126, 135, 232, 235, 319, 327, 329, 333, 342, 350, 352, 356, 359-360, 375-376, 379, 384, 388, 391-392, 394, 403, 405-406, 418, 426, 437, 453, 462-463, 475, 479-480, 485-486, 495, 500, 502, 510, 529, 541, 545-546, 549, 557, 559, 562, 565, 568, 571-572, 577, 583, 589-590, 596

<223> a, t, c, g, or other

<400> 42

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cacaangcca gcctncgcct acgagcccat ggactttgtg atggccctca tctacgacat 180
ggtagtgctt gtgggtcaccc tggggctggc cctcttcact ctgtgctggc anttnaagag 240
gtggaagctt aacggggctt cctcctcatc acagccttcc tctctgtgct catctgggtg 300
gcctggatga ccatgtacnt ttccggnant ttnaacctgc anagggggan cntttnaann 360
acccacttg gctannaant ttgncggnaa nngntgggtt ttnannatct tccatgcntc 420
cttganacca atgcacnttt tgccaacct tanggagaac annccaaact acttngaann 480
tcccnccca tggtngggan anggccttcn caggaggaat tttatcttnc gcggggctaa 540
nttgnaana aggcttncnc antgnttnaa nnaattnagc ttncggaann cagggnnttc 600
caaacg 606
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<210> 43

<211> 655

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1262948X325F1

<220>

<221> unsure

<222> 7, 220, 310, 320, 409, 420, 446, 469, 474, 485, 488, 491, 495, 513, 519, 530, 533, 545, 555, 561, 568, 588, 591, 594, 601, 611, 614, 625, 638, 647

<223> a, t, c, g, or other

<400> 43

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gagaaagatg agagctcacc aggtgctcac ctccctcctg ctcttcgtga tcacctcgg 120
ggcctctgaa aacgccagca catcccagg ctgtgggctg gacctcctcc ctacgtacgt 180
gtccctgtgc gacctggacg ccatctgggg cattgtggtg gaggcggtgg ccggggcggg 240
cgccctgatc acactgctcc tgatgctcat cctcctgggt cggctgccct tcaaggagaa 300
ggagaagaan ggccctgtgn gctccacttt ctgttcctcc tggggaacct ggggcctct 360
tggggctgac gtttccttca tcatccagga agacgagacc aatctgctnc tgttccggcn 420
gcttctctct ggggggttct cttttnggct cttgctttct tcttgcttnc ttangcaagg 480
caatngcncc nttcngaagc ttggttccgg cantggcang gggcccccnn ggnntgtcaa 540
acttnttggg cttgncgcct ntccctnaa agcttgggtc aaataatnat nccntttgaa 600
nttgcttggg ntcnaccctt tttntttaa aaaaggcnaa ctttgcncctt aaaaa 655
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<210> 44

<211> 207

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3036563H1

<400> 44

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gatcctagtt ctctcctggg aatactcctg gatattatct cttatgttgg ggtgggcttt 120
tccatcttga gcttggcagc ctgtctagtt gtggaagctg tgggtgtggaa atcggtgacc 180
aagaatcgga cttcttatat gcgccac 207
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PC-0044 CIP

<210> 45
<211> 264
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4457161H1

<400> 45
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cctatcactg cataatttaga tataagaatt catacagtat tgcaacccaaa gacgtcattg 120
ttcacccgct gccttctaaag ctgaacatca tgggtgatcc tttggaagct actgtttcat 180
gcagtgggtc ccatcacatc aagtgcctga tagaggagga tggagactac aaagttactt 240
tccatatggg ttctctatcc ctcc 264

<210> 46
<211> 408
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SZAH00352F1

<400> 46
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atcccgtaat aggtgtcgga gagccgggga aagtcattca gaagctatgc cggttctcaa 180
acgttcccag cagccctgag agtcccattg gcgggacccat cacttacaaa tgtgtaggct 240
cccagtggga ggagaagaga aatgactgca tctctgcccc aataaacagt ctgctccaga 300
tggctaaggc tttgatcaag agccctctc aggatgagat gctccctaca tacctgaagg 360
atctttctat tagcataggg caagcggaac atgaaatcag ctcttctc 408

<210> 47
<211> 413
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SZAH02656F1

<400> 47
ctcgaggggtg ttcaaaaact gttgatgtgt gttgtcactt taccaatgct gctaataatt 60
cagtctggag cccatctatg aagctgaatc tggttcctgg ggaaaacatc acatgccagg 120
atcccgtaat aggtgtcgga gagccgggga aagtcattca gaagctatgc cggttctcaa 180
acgttcccag cagccctgag agtcccattg gcgggacccat cacttacaaa tgtgtaggct 240
cccagtggga ggagaagaga aatgactgca tctctgcccc aataaacagt ctgctccaga 300
tggctaaggc tttgatcaag agccctctc aggatgagat gctccctaca tacctgaagg 360
atctttctat tagcataggg aaagcggaac atgaaatcag ctcttctcct ggg 413

<210> 48
<211> 489
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SZAH01730F1

<220>
<221> unsure
<222> 341, 393
<223> a, t, c, g, or other

PC-0044 CIP

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gggtcattgac aagagctacc tagaaaactt gcagtcggat tcgtctattg tcacccatggc 180
tttcccaact ctccaagcca tccttgctca ggatatccag gaaaataact ttgcagagag 240
cttagtgatg acaaccactg tcagccacaa tacgactatg ccattcagga tttcaatgac 300
ttttaagaac aatagccctt caggcggcga aacgaagtgt ngtcttctgg aacttcaggc 360
ttgccaacaa cacagggggg tgggacagca gtnggtgcta tgttgaagaa ggtgatgggg 420
acaatgtcac ctgtatctgt gaccacctaa catcattctc catcctcatg tcccctgact 480
tcccagatc 489

<210> 49
<211> 87
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SZA03622F1

<400> 49
ccaagacaga aggcaatggc tttctgagtg gacctgcttg tttcatgcag aatgaaaacc 60
aaggggtaga acagcattag ggccaat 87

<210> 50
<211> 116
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SZA01163F1

<400> 50
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atgctcttgg atgagttttc cagggatgat ctgggttctt ctgtgttgga atcgtg 116

<210> 51
<211> 558
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SZA02669F1

<400> 51
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gcactggatg agttttccag ggatgagctg gttgcttctg ggggtggaaac attatacgtt 120
cctgttttac caaacaatt gttaaatctc cttgatattg gagaactcat agaaaacaca 180
gggtgtggatg aaccaggga tgtcgacttt gagtgtctgt aagaccatct cgacaatgaa 240
aacttattca gcaaagcttc ctgtaccttc agatcccaga ggcatccaaa gagtaaaatg 300
aataatccct ggaagacatt gaggatggca aatatgatat ggaacacaag gttggtccct 360
gggaacacag tggtagagacc aaaaccccaa gtgaggccca agagtgggtg gaggacccca 420
atgctcttgc tgatctgaaa caggctgctc ttctcctgct tgcattggct gtctccaatg 480
gaaggcctca ggatcttggg gatgacacaa tagtgatggg tatgttcacc acacaatgat 540
cagtgtctggg atggcaaa 558

<210> 52
<211> 362
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SZA00249F1

<400> 52
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 aacctacgtg acctcccggg gacagtggct gtgcttttaa aaagagatgc ttgcaaacia 120
 tgggggaacgt gttctcgggg caggtttccg ggagcagatg ccaaaaagac tttttcatag 180
 agaaggggct ttcttttcta aagacagaat aaaaataatt gttatgtttc tgtttgttcc 240
 ctccccctcc cccttgtgtg ataccacatg tgtatagtat ttaagtgaac ctcaagccct 300
 caaggcccaa cttctctgtc tatatgtaat atagatttcc gagaggcatt ttcacctttt 360
 ac 362

<210> 53
 <211> 615
 <212> DNA
 <213> *Canis familiaris*

<220>
 <221> misc_feature
 <223> Incyte ID No: 702778992H2

<400> 53
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 catcgccctc gccgccaatg cctgggcctt tgtgctcttc tatgtcatcc ctgaggtctc 180
 ccaggtgacc aaggccagcc cagagcaaaag ttaccagggg gacatgtacc ccaccggggg 240
 cgtaggctac gagaccatcc tgaaagagca gaagggccag agtatgtttg tggagaacia 300
 ggcatttttc atggatgagc cagcctcagc taagagaccg gtgtcaccat acagtgggta 360
 caacgggcag ctgctgacca gctgtgtcca gccaccgag atggccctga tgcacaaagg 420
 cccgtccgaa ggagcttacg acgtcatcct cccacgagcc accgccaaca gccaggtgat 480
 gggcagtgcc aactccaccc tgagggccga agacatgggt gcggcccaga gccaccaggc 540
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 ctgagtcggc ggcag 615

<210> 54
 <211> 686
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <221> misc_feature
 <223> Incyte ID No: 701938522F6

<400> 54
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 gcctggactt ttgtcttctt ctatgtcatc cctgaggtct cccaagtac caaaccacgc 180
 ccagaacaga gctaccaggg ggacatgtac ccgaccgag ggggtgggcta cgagaccatc 240
 ctgaaggagc agacggggcca gagcatgttg tggagaacia ggcattttct atggatgaac 300
 cagcctcagc aaagagaccg gtgtgcgctt acagtggcta caatggtcag ctgctgacca 360
 gctgtacca gccaccgag atggccctga tgcacaaagg cccgtctgaa ggtgcgtacg 420
 acgtcatcct cccacgggcc accgcaacag ccaggtgatg ggcagtgcca actcaaccct 480
 gcgagctgaa gacatgtaca tgggtccagag ccaccaggtg gcacgccaac gaaagacggc 540
 aagatctctc aggatcagtc cccgaaaaat aaaacaagat ggtagatgcc ctcttccttg 600
 gaccgtgacc tctccgtgtg ccattgccaa catggacttt gtcatggcct catttacgta 660
 atgtgctgc tgctggcggc ttccta 686

<210> 55
 <211> 198
 <212> DNA
 <213> *Macaca fascicularis*

<220>
 <221> misc_feature
 <223> Incyte ID No: 700712581H1

<400> 55
 tggcttgccg cgcggcagcg gctgccaggc tgccccccga agacccctt cccgactgcg 60
 gggcttgggc tcctggacia ggtggcaggc gctggaggct gccgcagtcg gcgtgggtgg 120

PC-0044 CIP

aggggagctc agcttggttg tgggagccgg cgaccgtcac tggctggatg gacctggaag 180
cctcgtgct gccactg 198

<210> 56
<211> 271
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: 701250242H1

<400> 56
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gtgggtggatc tgcttttccct gctgggcatg cctttcatga tccaccagct catgggtaat 120
ggtgtctggc actttgggga aaccatgtgc accctcatca cagccatgga cgccaacagt 180
cagttcacca gcacctacat cctgactgct atggccattg accgtactt ggccaccgtc 240
catcccatct cctccaccaa gttccggaag c 271

<210> 57
<211> 304
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701899983H1

<400> 57
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cctgtggggc ctctccttca tcagtatcac cctgtgtgg ctctacgcca ggctcattcc 120
cttcccaggg ggtgtgtgg gctgtggcat ccgcctgcc aaccgggaca ctgacctcta 180
ctggttcaact ctgtaccagt ttttcctggc ctttgccctt ccgtttgtgg tcattaccgc 240
cgcatacgtg aaaatactac agcgcgatgac gtcttcgggtg gctccagcct cccaacgcag 300
catc 304

<210> 58
<211> 248
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701028051H1

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gagtgtctcc tacatcacat cattatgcct tccgtgtctg gtaccatctg tctcctgggc 180
atcgtgggaa actccacggt catctttgct gtcgtgaaga agtccaagct acactgggtg 240
agcaacgt 248

<210> 59
<211> 497
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: 075474_Mm.1

<400> 59
gtgacactgc tcatcctggt caacgtgggt tccctgggtga ccatgtactc cactgcactg 60
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acaccggca cgtgtgtggc ttcgtctggg gagggcggt gtcaccagc ttctcctccc 180
tgctcttcta catctgcagt cacgtgtctt ctagaatcgc tgagtgtgcc cggatgcaga 240

PC-0044 CIP

acacggagggc agccgatgct atccttgtgc tcatcggcta cgtggtgcca ggtctggctg 300
tgttgatgct cctggcactc atctcgagaa tcgggaagga agacacaccc ctggaccagg 360
acaccagcag gctggacccc tcggtgcaca ggctgctggt ggccaccgtg tgcactcagt 420
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gaccgtggag gggcatt 497

<210> 60
<211> 266
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 700819903H1

<400> 60
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ggatgcagaa cacggaggca gccgacgcca tccttgtgct cattggctac gtggtgccag 180
gtctggctgt gttgtatgcc ctggcactca tctcaaggat tgggaaggaa gacacacccc 240
tggaccagga caccagcagg ctggac 266

<210> 61
<211> 294
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701657796H1

<400> 61
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cacagtgcta gtgtcacggg gaaggaccgt agtggggcat tatctgggca tcctacaggt 180
tgctaaggac ctggcgaaagt tcttggcctt ctcaagcagt tctgtgacgc cgctgctcta 240
ccgttacatc aacaaagcct tccccagcaa gctccggcgc ctggtgaaga agat 294

<210> 62
<211> 432
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 702466096T1

<400> 62
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gatcatctcc ttcttcacct gcttctgtat ttcgggtggct gttatggtgc tttgatgaac 120
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ttactctgtg acaagggtctt attgtagagt tcagatgagc cttcaacttg actaggttagc 360
ctaggctgga caccaacatg cagtcctcct gcctcagatt acaaagtgtg accagatctt 420
cctgatctcc at 432

<210> 63
<211> 727
<212> DNA
<213> Macaca fascicularis

<220>
<221> misc_feature
<223> Incyte ID No: 703021534H1

<400> 63
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ctccacagcg atgatgactt gtaccagcat caggcacagc gccaggccca ccagctgcca 180
gcccgcgggg cccgtgccgt gccgcaccag cctccgcacg cggcacgcct ggctcagcag 240
gcaggagaag cagagcgcaa agaggacgcc ccagaggaag cggcggacgg agcagatggg 300
ctcgtcctcc tggatgatga aggcgaatgt cagcccgaag agggccaggg tcccaggag 360
gaagagaaag tggaggccca cggggctctt cttctocttc tccttgatga agggcagccg 420
caccaggagg atgagcatca ggagcagtgt gatcagggcg cccgccccgg ccaacggctt 480
caacaagaag tgccccagat ggcgtccagg tcgcacaggg acacgttact gagggacggc 540
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aagagcagga ggaagggtgag cacctgggtga gctctcatct ttctctctga tgccacgaac 660
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tctgcag 727

<210> 64
<211> 461
<212> DNA
<213> Canis familiaris

<220>
<221> misc_feature
<223> Incyte ID No: 703543565J1

<400> 64
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tgttactgat ttctccctca agaaagacac agccaggga taaaatcggg aacgagagat 180
tcttacttct ctggaactta acacagtctt tcaccagagg tgtcttcag tgctaactag 240
gcgagcagt tgggatagtc cctccatcga gcacaacggc catctcagct gggctgacta 300
gacacttgct ctctaaacgg agcgctcggt ctgtttccca agctgccatt gcgacaatcc 360
cgccgttcgg agagctgcat agtgttcac ccatcgagaag gcttcgcttc tccatgtagg 420
tccgtggcag ctgcacgtcc tcttcacaac gcatgtctcc c 461

<210> 65
<211> 278
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: 076599_Mm.1

<220>
<221> unsure
<222> 249
<223> a, t, c, g, or other

<400> 65
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tcccttgccc ctgctcctgg tgattgcctc cgtggcttca gagaacgcca gcacgtcccg 180
gggctgtgga ctggaccttc ttctcagta cgtgtccctg tgcgacctgg acgccatctg 240
gggcatccnt ggtggagggc agtggccggg gcgggggc 278

<210> 66
<211> 561
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701749639H1

<400> 66
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ggtgtcctct tcgcactctg cttttcctgc ctgctgagcc aggcgtggcg ggtacggagg 180
ctggtgcgcc agggcacgag cccggccagc tggcagctgg tgagcctggc actgtgcctg 240
atgctgggtg aggtcatcat cgccactgag tggctgggtg tgactgtgct acgtgacacg 300
aagccggcct gcgcctacga gcccatggat tttgtgatgg cgctcatcta cgacatgggtg 360
ctgctggcta tcaccctagc gcagtccctc ttcacactgt gtggcaagtt caagcgggtg 420
aaggtgaacg gagccttcat cctcatcact accttctct ctgtgctcat ctgggtgatc 480
tggtatgacca tgtacctctt cggcaactcg ttaattaagc gggcagatgc ctggagcgaa 540
cctaccttgg ccatcacgct g

```

<210> 67

<211> 499

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 702147192H1

<400> 67

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gcgctgcggg gacgcgaggg tcgagtgttc ctggtgtcag agagaaagat gagaacccac 60
caagtgcctt cctgcccct gtccttggtg attgcctctg tggcttcgga gaacgccagc 120
acgtcccggg gctgtgggct ggaccttctt cctcagtaag tgacctgtg cgacctggac 180
gccatttggg gaatcgtggg ggaggcagtg gccggggcag gggccctgat cacactgctt 240
ctgatgctta ttctcctggt gagactgccc ttcataaagg acaaggaaag gaggcggcct 300
gtgtgcctcc acttctctct cctgctgggg accctgggac tctttggcct gacgtttgct 360
ttcatcatcc ggatggacga gacaatctgc tccatccgac gcttctctg ggggtgtcctc 420
ttcgactctt gcttttctg cctgctgagc caggcgtggc ggggtacggg gctggtgcgc 480
cagggcacga gcccggcca

```

<210> 68

<211> 565

<212> DNA

<213> Canis familiaris

<220>

<221> misc_feature

<223> Incyte ID No: 703557532J1

<220>

<221> unsure

<222> 24

<223> a, t, c, g, or other

<400> 68

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gctgttcaga tcagcaagag catnggggtc ctaacaccac tctggggctc acctgggggtt 60
tggctctgcc actgtgttcc aaggaagcaa gctgtgttcc atattatatt tacactcctc 120
aatgcctttc agggattatt catttgctct tggatgcctc tgggatcaga aggtacagga 180
agccttacta aagaagtttt cactgtcaag atggctcttc cagcactcaa agtcaacatc 240
cctaggttca tctacaccag tattttctat gagttctcca atatcaagaa gatttaacaa 300
tttattggaa aaacaggaac gtacaagttt ccaccccaga aacaaccagc tcatccctgg 360
aaaacacatc cagtgcctac tccttgctga actaagaaca ggaaaatcta cccacgtgac 420
ttcttaaaag acagcggata tgctctgaaa aaaaaaaaaa atcctttcaa agccatgggg 480
taaaacgggt tcctccgagg cttcccggga gcaaatgctg aagagacctt tcggctttag 540
gggaaaagaa gcttcctttg gtaaa

```

<210> 69

<211> 468

<212> DNA

<213> Canis familiaris

<220>

<221> misc_feature

<223> Incyte ID No: 702766139H1

<400> 69

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ccccccagta ggactccaga gatgtttggt actttttgaga aatggcagag tttctggatg 60
actttttccag gctccccaac acctattacg ggatctcggc acatgatgtt ctttccagga 120
accacattaa gcttcataga tgggctccgg actgaattat tagcagcatt aggtaaagtg 180
acaaaatatg tccagctttt ttagacacca ggaaactgat gtccttgcca tgaacttgta 240
tttgcgacac acttgcttgc cattaacttc tttttctgca ggaaaggata aggaatccac 300
ttggaaagtc actctgtagt atctcagtc tctgcaatgc agcatctgaa gtgataggga 360
acccttgacg ggaactgtag cactccagag gatcaacat gatgtttggc tctagaggca 420
gtgggtaaac gggtcacatct ttcattacga cacatgtatg aatacttg 468

```

<210> 70

<211> 263

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> Incyte ID No: 701085654H2

<400> 70

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ctattccaga tcagcaagag tatcgggggt ctcacaccac tcttgggggt cacttgggggt 60
ttcgggtcttg ccacagtgat ccagggaagc aatgctgtgt tccacatcat atttactact 120
ctcaatgcct tccagggggt cttcattttg ctctttgggt gcctctggga tcagaagggtg 180
caggaagctt tgctgcataa gttttcattg tcaagggtgt cttctcaaca ctcaaagtca 240
acatccatag gttcgtcaac acc 263

```

<210> 71

<211> 246

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> Incyte ID No: 701077530H1

<400> 71

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cctcattatc tcctctatca cagtgggggt tacgcagcta caggaagtct acatgatgaa 60
gaacgcgtgt tggctcaact gggaggacac cagagcactg ctggcttttg ccatccccgc 120
gttgattatt gtgggtggtaa atgtgagcat cacagtgtgt gtcatcacca agatcctgag 180
gccctccatt ggggacaagc caggcaagca agagaagagc agcctattcc acatcagcaa 240
gagtat 246

```

<210> 72

<211> 515

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 702147631H1

<400> 72

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gttgtggaag ccatggtgtg gaaatcagtg accaagaacc gaacttccta tatgcgccac 60
atctgcatcg tcaacattgc cttttctcta ggctatggct gtccactcat tatctcatcc 120
atcacagtgg gggttacaca gccacaggaa gtttacatga ggaagaatgc atgttgggtc 180
aactgggagg acaccagagc actgctggct tttgctatcc cagcgttgat tattgtgggtg 240
gtgaacgtga gcatcacagt tgtggtcac accaagatcc taaggccctc cgtcggagac 300
aagccaggca agcaggaaaa gagcagccta ttccagatca gcaagagcat tggagtccctc 360
acgccactct tggggctcac ttgggggtttt ggtctggcca cagtgatcca ggggagcaat 420
gctgtgttcc acatcatatt tactctctc aatgccttc aggggctctt cattttgctc 480
tttggtgcc tctgggatca gaaggtacag gaagc 515

```

<210> 73

<211> 539

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 702239655H1

<400> 73

```

ggatatcatt tcttacatcg gggtgggctt ttccatagtc agcttagctg cctgtctagt 60
tgtggaagcc atggtgtgga aatcagtgac caagaaccga acttcctata tgcgccacat 120
ctgcatcgtc aacattgccc ttgaccttct gattgctgac atctgggtca ttgtggctgg 180
tgctatccat gatgggcatt acccactcaa cgaaacagcc tgtgtggccg ccacattctt 240
cattcacttc ttctacctca gtgtcttctt ctggatgcta actctgggcc tcatgctctt 300
ctaccggctg attttcattc tacatgacgc gagcaagtcc acgcagaaaag ccattgcctt 360
ttctctaggc tatggctgtc cactcattat ctcatccatc acagtggggg ttacacagcc 420
acaggaagtt tacatgagga agaatgcatg ttggctcaac tgggaggaca ccagagcact 480
gctggctttt gccatcccag cgttgattat tgtggtggtg aacgtgagca tcacacaca 539

```

<210> 74

<211> 571

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 702438348T1

<400> 74

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tctgtcttta caaaagaaaag catcttctct attcaaagag tctcttcagc atctgctccc 60
agaagtctgc agagagaaca ctttaccat agatttggat atgggtccct tttcttggca 120
ggggccctat ttctgagagc tcctgtgaat ttggcattat ctggctcctag ttgagcaatg 180
agtaagcact agaggaattt tccacggatg agctgggtgt ctctgggggtg gaaacgttat 240
atgttccatc aggaggatga actgccactg ataacaaggt gtccatcatt gccttggggg 300
acctttgggg ctgctgtttt accaaaaaga ttattaaatc ttcgggatat cggagaactc 360
atcgaaaaca caggtgttga tgaacctaaag gatgttgact ttgagtgttg agaagaccac 420
cttgacaatg aaaacttatg cagcaaagct tcctgtacct tctgatccca gaggcagcca 480
aagagcaaaa tgaagagccc ctgaaaggca ttgaggagag taaatatgat gtggaacaca 540
gcattgctcc cctggatcac tgtggccaga c 571

```